

ABSTRACT

A method of optimizing the size of blocks of coded data intended to be subjected to an iterative decoding process, a maximum error rate of the iterative decoding process being fixed in advance, in which there are sought, among a plurality of block sizes (N/k) which are submultiples of the normal block size by an integer factor (k) greater than or equal to 1 and a plurality of integers giving the maximum number of iterations ($\overline{m}_{\text{iterations}}^{(k)}$) that can be effected by the said iterative decoding on a block, (1) a submultiple size, and (2) a maximum number of iterations such that they are compatible with the said maximum error rate, and such that the mean number of iterations ($\overline{m}_{\text{iterations}}^{(k)}$) that will be applied by the iterative decoding process on a block of submultiple size is minimized.